



University of Pretoria Yearbook 2016

Biometry 120 (BME 120)

Qualification Undergraduate

Faculty Faculty of Economic and Management Sciences

Module credits 16.00

Programmes BSc Information Technology Information and Knowledge Systems

BSc Biochemistry

BSc Biological Sciences

BSc Biotechnology

BSc Chemistry

BSc Ecology

BSc Entomology

BSc Environmental Sciences

BSc Extended programme - Biological and Agricultural Sciences

BSc Extended programme - Physical Sciences

BSc Food Management (4 years)

BSc Food Science

BSc Genetics

BSc Geography

BSc Geology

BSc Human Genetics

BSc Human Physiology

BSc Human Physiology, Genetics and Psychology

BSc Medical Sciences

BSc Microbiology

BSc Nutrition

BSc Plant Science

BSc Zoology

BScAgric Animal Science

BScAgric Animal Science: Pasture Science



BScAgric Food Science and Technology

BScAgric Option: Applied Plant and Soil Sciences

BScAgric Plant Pathology

BScHons Biotechnology

BVeterinary Science Veterinary Science

Service modules

Faculty of Engineering, Built Environment and Information Technology

Faculty of Natural and Agricultural Sciences

Faculty of Veterinary Science

Prerequisites

At least 4 (50-59%) in Mathematics in the Grade 12 examination, or at least 50% in both Statistics 113, 123

Contact time

1 practical per week, 4 lectures per week

Language of tuition

Both Afr and Eng

Academic organisation

Statistics

Period of presentation

Semester 2

Module content

Simple statistical analysis: Data collection and analysis: Samples, tabulation, graphical representation, describing location, spread and skewness. Introductory probability and distribution theory. Sampling distributions and the central limit theorem. Statistical inference: Basic principles, estimation and testing in the one- and two-sample cases (parametric and non-parametric). Introduction to experimental design. One- and twoway designs, randomised blocks. Multiple statistical analysis: Bivariate data sets: Curve fitting (linear and non-linear), growth curves. Statistical inference in the simple regression case. Categorical analysis: Testing goodness of fit and contingency tables. Multiple regression and correlation: Fitting and testing of models. Residual analysis. Computer literacy: Use of computer packages in data analysis and report writing.

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